

Amendments to the Specification

In the Specification:

Please replace the current sequence listing with the substitute sequence listing appended hereto.

In the application at page 1, after the priority claims but before the Field of Invention, please insert the following new subtitle and paragraph:

REFERENCE TO A SEQUENCE LISTING SUBMITTED
ELECTRONICALLY VIA EFS-WEB

This application includes a "SequenceListing.txt", 7,680 bytes, updated on August 18, 2008, and submitted electronically via EFS-Web which is hereby incorporated by reference in its entirety. The submission of the sequence listing text file does not include any new matter.

Please substitute the section beginning on page 10, line 6, with the following section:

The present invention provides a peptide represented by <Chemical Formula 1> having 18 amino acids represented by each figures.

<Chemical Formula 1>

W₁X₂B'₃U₄X₅X₆B₇B₈U₉X₁₀B'₁₁C₁₂U₁₃B₁₄U₁₅X₁₆X₁₇U₁₈ (SEQ ID NO:11).

In the above <Chemical Formula 1>,

W represents tryptophane or its derivatives;

X (X₂, X₅, X₆, X₁₀, X₁₆ or X₁₇) represents more than one amino acid residue selected from a group consisting of tyrosine, valine, isoleucine, leucine, methionine, phenylalanine and tryptophane, and the derivatives thereof;

B (X₇, X₈ or X₁₄) represents more than one amino acid residue selected from a group consisting of arginine, lysine and histidine, and the derivatives thereof;

B' (X₃ or X₁₁) represents more than one amino acid residue selected from a group consisting of arginine, lysine and histidine or from a group consisting of asparagine and glutamine, and the derivatives thereof; and

U (X₄, X₉, X₁₃, X₁₅ or X₁₈) represents more than one amino acid residue selected from a group consisting of ~~glysine~~ glycine, serine, alanine and threonine, and the derivatives thereof.

Please substitute the section beginning on page 11, line 6, with the following section:

As for the peptide of the present invention represented by the above <Chemical Formula 1>, it is preferable to select tryptophane for W, select one from a group consisting of leucine, isoleucine and valine for X, one from a group consisting of asparagine, glutamine, histidine, lysine and arginine for B, one from a group consisting of alanine, serine, and glycine for U, and select cysteine for C (SEQ ID NO:12).

Please substitute the section beginning on page 12, line 1, with the following section:

The present invention also provides a peptide having 15 amino acids represented by <Chemical Formula 2> in which three amino acids (W₁X₂B'₃) at N-terminal of the peptide represented by the above <Chemical Formula 1> are lost.

<Chemical Formula 2>

$U_4X_5X_6B_7B_8U_9X_{10}B'_{11}C_{12}U_{13}B_{14}U_{15}X_{16}X_{17}U_{18}$ (SEQ ID NO:13).

In the above Formula,

X (X_2, X_3, X_7, X_{13} or X_{14}) represents more than one amino acid residue selected from a group consisting of tyrosine, valine, isoleucine, leucine, methionine, phenylalanine and tryptophane, and the derivatives thereof;

B (X_4, X_5 or X_{11}) represents more than one amino acid residue selected from a group consisting of arginine, lysine and histidine, and the derivatives thereof;

B' (X_8) represents more than one amino acid residue selected from a group consisting of arginine, lysine and histidine or from a group consisting of asparagine and glutamine, and the derivatives thereof; and

U (X_1, X_6, X_{10}, X_{12} or X_{15}) represents more than one amino acid residue selected from a group consisting of ~~glysine~~ glycine, serine, alanine and threonine, and the derivatives thereof.

Please substitute the section beginning on page 13, line 1, with the following section:

As for the peptide of the present invention represented by the above <Chemical Formula 2>, it is preferable to select one from a group consisting of leucine, isoleucine and valine for X, one from a group consisting of asparagine, glutamine, histidine, lysine and arginine for B, one from a group consisting of alanine, serine, and glycine for U, and select cysteine for C (SEQ ID NO: 14).

Please substitute the section beginning on page 13, line 10, with the following section:

For building the peptide of the present invention represented by the above <Chemical Formula 2>, it is more preferable to select alanine for U_4 , leucine for X_5 , leucine for X_6 , histidine for B_7 , histidine for B_8 , glycine for U_9 , leucine for X_{10} ,

asparagine for B'₁₁, cysteine for C₁₂, alanine for U₁₃, lysine for B₁₄, glycine for U₁₅, valine for X₁₆, leucine for X₁₇ and alanine for U₁₈ (SEQ ID NO:15). Thus, it is most preferable for the peptide of the present invention to have amino acid sequence represented by SEQ. ID NO: 2.

Please substitute the section beginning on page 13, line 21, to page 14, line 3, with the following section:

The present invention further provides a peptide in dimer form represented by <Chemical Formula 3> wherein the cysteine residues of two peptides, each represented by <Chemical Formula 1> (SEQ ID NO:11), are combined with each other by disulfide bond.

<Chemical Formula 3>

W₁X₂B'₃U₄X₅X₆B₇B₈U₉X₁₀B'₁₁C₁₂U₁₃B₁₄U₁₅X₁₆X₁₇U₁₈

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W₁X₂B'₃U₄X₅X₆B₇B₈U₉X₁₀B'₁₁C₁₂U₁₃B₁₄U₁₅X₁₆X₁₇U₁₈

Please substitute the section beginning on page 14, line 9, with the following section:

The present invention also provides a peptide in dimer form represented by <Chemical Formula 4> wherein the cysteine residues of two peptides, each represented by <Chemical Formula 2> (SEQ ID NO:13), are combined with each other by disulfide bond.

<Chemical Formula 4>

U₄X₅X₆B₇B₈U₉X₁₀B'₁₁C₁₂U₁₃B₁₄U₁₅X₁₆X₁₇U₁₈

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U₄X₅X₆B₇B₈U₉X₁₀B'₁₁C₁₂U₁₃B₁₄U₁₅X₁₆X₁₇U₁₈

Please substitute the section beginning on page 15, line 4, with the following section:

The present invention also provides a peptide in dimer form represented by <Chemical Formula 5> wherein the cysteine residue of the peptide represented by <Chemical Formula 1> (SEQ ID NO:11) is combined with that of the peptide represented by <Chemical Formula 2> (SEQ ID NO:13) by disulfide bond.

<Chemical Formula 5>

W₁X₂B'₃U₄X₅X₆B₇B₈U₉X₁₀B'₁₁C₁₂U₁₃B₁₄U₁₅X₁₆X₁₇U₁₈

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U₄X₅X₆B₇B₈U₉X₁₀B'₁₁C₁₂U₁₃B₁₄U₁₅X₁₆X₁₇U₁₈